

AMENDMENTS TO THE SPECIFICATION

Please amend ¶ [0022], as shown below:

[0022] Referring now to Figs. 2 and 3, one embodiment of waveguide polarizer 100 (see Fig. 2) and a phase adjustment device 110 is shown. In accordance with this embodiment, waveguide polarizer 100 comprises a corrugated waveguide polarizer. As one skilled in the art will appreciate, waveguide polarizer 100 can be manufactured using any suitable material that can propagate electromagnetic waves, such as aluminum, steel, or the like. In addition, while the illustrated embodiment shows a square waveguide polarizer, other suitable polarizer devices can be used, such as, for example, a ~~Septum~~ septum polarizer, or the like.

Please amend ¶ [0023], as shown below:

[0023] In accordance with the illustrated embodiment, phase adjustment device 110 comprises a device that can be connected to an end of (i.e., in cascade with) waveguide polarizer 100. Phase adjustment device 110 includes an aperture 111 having a height ("H")114 and a width ("W")116 (see Fig. 3), and device 110 has a thickness ("T") 112 (see Fig. 2). As discussed in more detail below, the phase adjustment qualities of phase adjustment device 110 can be changed by changing the dimensions of aperture 111 and/or the thickness ("T")112. Also, as illustrated in Fig. 3, phase adjustment device 110 can be connected to waveguide polarizer 100 using any suitable fastener or fastening device, for example, using fasteners through attachment holes 118.

Please amend ¶ [0031], as shown below:

[0031] Curves 620 and 630 illustrate the amount of phase adjustment for the same devices as are illustrated by curves 610 and 600, respectively, except that the devices are rotated 90 degrees. Thus, curve 620 illustrates the amount of phase adjustment for a device having an aperture height of 0.4355 inches, an aperture width of 0.415 inches, and a thickness of 0.05 inches. This

particular device provides a phase lag of about -1.7 degrees at 20.00 GHz (point 622) and about -1.5 degrees at 30.00 GHz (point 624); the same phase adjustment as curve 610 except a lag instead of a lead.

Please amend ¶ [0032], as shown below:

[0032] Similarly, curve 630 illustrates the amount of phase adjustment for a device having an aperture height of 0.4355 inches, an aperture width of 0.400 inches, and a thickness of 0.05 inches. This particular device provides a phase lag of about -3.75 degrees at 20.00 GHz (point 632) and about -3.5 degrees at 30.00 GHz (point 634). Again, the same phase adjustment as curve 600 except a lag instead of a lead.